TOSHIBA
TIME LAPSE VCR

Toshiba KV-7168A Instruction Manual

Virtual real-time & time lapse vcr

1
2
3
4
Table Of Contents
5
6
7
8
9
10
11
12
13
14
15
16
17

-

Table of Contents

Bookmarks

Quick Links

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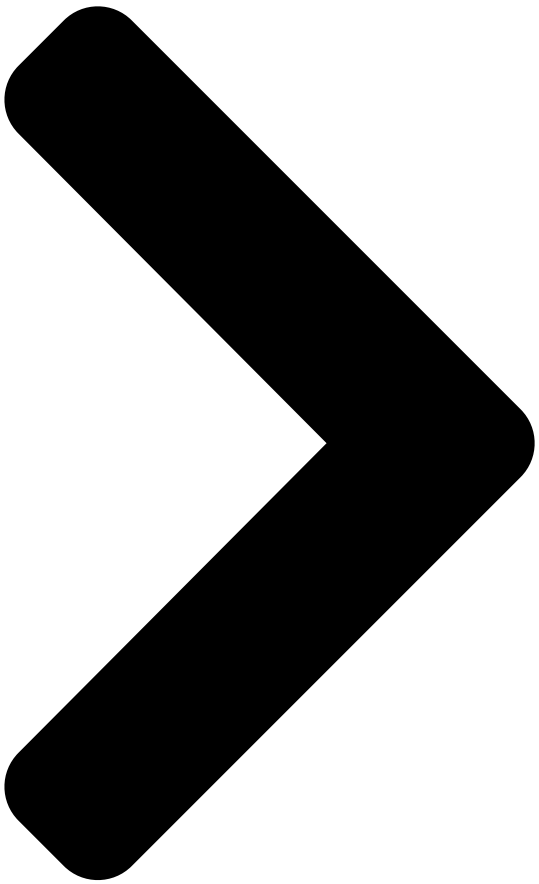

Instruction Manual

VIRTUAL REAL-TIME & TIME LAPSE VCR

TOSHIBA

KV-7168A

Table of Contents

Next Page

1
2
3
4
5

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VCR Toshiba W-614 Owner's Manual

Hi-fi vhs (35 pages)

VCR Toshiba RD-XV45KB Instruction Manual

Hdd & dvd/video cassette recorder (98 pages)

Summary of Contents for Toshiba KV-7168A

Page 1 Instruction Manual VIRTUAL REAL-TIME & TIME LAPSE VCR KV-7168A PAUSE/STILL TIME LAPSE VCR PLAY STOP POWER 4Head 168Hour TAPE REMAIN TIME MODE DISPLAY – COUNTER TRACKING SHIFT MEMORY ALARM RESET LOCATION SELECT...

Page 2: Please Read

PLEASE READ WARNING RISK OF ELECTRIC SHOCK DO NOT OPEN. WARNING: TO REDUCE THE RISK OF ELEC- TRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USERSERVICEABLE PARTS IN- SIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Page 3: Important Safety Instructions

IMPORTANT SAFETY INSTRUCTIONS CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE. This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing.

Page 4

10. Outdoor Antenna Grounding If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit,...

Page 5: Table Of Contents

NTRODUCTION FEATURES i i i i i Various time modes. With a T-120 tape, it is possible to record over periods ranging from 2 to 168 hours. A2, A6, A12, A18, A24, 24, 48, 72, 120 and 168 modes are explained in more detail.

Page 6: Instructions In Brief

INSTRUCTIONS IN BRIEF Front Panel Note:Regardless PAUSE/STILL2 – V CR DISPLAY 8 1 2 3 4 1 5 6 7 9 1 0 TIMER...

Page 7

TAPE REMAIN button The approximate time remaining on the tape is displayed on the counter (in a 2 hour scale using a T-120 tape) while this button is being pressed. CASSETTE COMPARTMENT Insert a cassette into this compartment to load the tape. DISPLAY button Press to display the MENU screen and change the settings.

Page 8: Rear Panel

Rear Panel TAPE END OUT terminal Signal output terminal to annunciate to other devices that the tape has run out on the VCR. REC TRIGGER OUT terminal Signal output terminal to control the switching interval of the video cameras when connected to a sequential switcher or multiplexer.

Page 9

A Word on the Exclusive 3N-100AAS Battery Pack The nickel-cadmium battery pack (3N-100AAS) is used for power source of the built-in clock and memory circuit. Charging the Battery Pack 1. Turn on the power of the VCR. 2. The battery pack in the VCR is charged. Battery Installation Removal: 1.

Page 10: Vcr Display

VCR DISPLAY 2 3 4 COUNT. ALARM ALARM PLAY TIMER Cassette indicator Lights when a tape is inserted. Counter memory indicator Lights when the counter memory is selected. Alarm Memory indicator Lights when the alarm memory is selected. Alarm indicator Lights during alarm recording and blinks after an alarm recording cycle is completed.

Page 11: Wired Remote Control (Option)

WIRED REMOTE CONTROL (Option) STOP PAUSE/ PLAY STILL PICTURE SEARCH (–) PLAY TIME (+) PAUSE/STILL button • Press during recording to pause the recording. • Press during playback to play back a still picture. REW button • Press to rewind the tape. •...

Page 12: Preparation

REPARATION CONNECTIONS Connection with a Video Camera To VIDEO OUT (BNC connector) camera To AC OUTLET (120V) Quadrant picture unit VIDEO INPUT To AC OUTLET (120V) To VIDEO IN (BNC connector) ALL CLEAR REMOTE IN RESET MIC IN VIDEO TAPE END SEE MANUAL AUDIO VIDEO OUTPUT...

Page 13

Typical Connection with the Sequential Switcher When connected with a sequential switcher, set the alarm recording mode to MANUAL by menu screen. For further details, consult the instruction manuals of the connected devices. To VCR playback To VCR REC Frame Sequential Switcher VIDEO IN CAMERA ALL CLEAR...

Page 14: Contents Of Screen Display

CONTENTS OF SCREEN DISPLAY The normal MENU screen provides six menus after the initial screen for clock setting. Each MENU screen is shown below. Press the DISPLAY button for a MENU screen. The menu is selected by pressing the SHIFT button. Then press the SET button to proceed to the next screen.

Page 15 PROGRAM Screen M E N U PROGRAM MO1 ON --:-- MO2 ON --:-- CLOCK ADJUST TU1 ON --:-- SETUP SETUP TU2 ON --:-- DISPLAY MODE WE1 ON --:-- PROGRAM WE2 ON --:-- ALARM RECALL TIME DATE SEARCH TH1 ON --:-- TH2 ON --:-- END=[DISPLAY] MENU=[DISPLAY]...

Page 16: Setting The Clock

SETTING THE CLOCK An internal clock generates time and date for superimposing on the monitor screen. Adjust the time from the MENU screen (initial screen). After the clock is set, the data and time modes are displayed on the monitor screen (live picture). Operation In case of setting to 5:30 PM, Wednesday, August 28, 1996;...

Page 17: On-Screen Functions

ON-SCREEN FUNCTIONS When the power is turned ON, the time and date modes are displayed on the monitor screen (live picture). On-screen displays are not available in the event of no video input signal. Date-Time Display 8/28/96 WED 17:30:02 A 2 Monitor screen Date : Displayed with the month-day-year.

Page 18: Display Screen

DISPLAY SCREEN Set the MENU screen to DISPLAY screen, and select or set each item. Before operation, set the MENU screen to DISPLAY screen (See page 13.). Note: Press the DISPLAY button twice to return from the display screen to the monitor screen. Operation Erasing the date display.

Page 19 Note: Press the DISPLAY button twice to return from the display screen to the monitor screen. Operation Displaying the VCR number. Press the SHIFT button to blink VCR and press the + or – SET button to set the VCR number. Changes as shown below each TIME MODE DISPLAY...

Page 20: Counter Display

COUNTER DISPLAYS Counter Memory When the counter is set to “0000” at a location that you want to see again during recording and playback, the tape will stop in the vicinity of “0000” during rewind and fast forward. When the alarm counter is displayed, press the ALARM button to set the display to the counter display.

Page 21: Error Message

Notes: In the cases shown below, Alarm Memory search may be not carried out. If the alarm recording is not carried out for more than those listed in the following chart then, the alarm may be skipped. If the alarm recording interval is not left for more than those listed in the following chart then, the alarm may be skipped. If there is not enough time between the beginning of the alarm search and the first alarm activation.

Page 22: Setting The Recording/Playback Time

SETTING THE RECORDING/PLAYBACK TIME Before performing playback/recording, it is necessary to set the desired time mode. (Virtual Real Time mode) (*1): Without an alarm trigger input and an one-shot trigger input. • The possible recording time depends on the type of video tape used. •...

Page 23: Loading And Unloading A Video Cassette

LOADING AND UNLOADING A VIDEO CASSETTE Loading a cassette Insert a cassette in the Cassette Compartment. Power goes on automatically and the cassette indicator lights. REC CHECK TIMER VIDEO MODE COLOR AUTO REMOTE OFF REMOTE OPTION TIME LAPSE VCR POWER EJECT BUZZER 4Head 168Hour...

Page 24: Recording Operation

ECORDING OPERATION RECORDING Turn on the power for this VCR as well as associated devices of the surveillance system including the video camera and monitor TV. Adjust the

monitor TV so that the picture from the video camera is displayed properly. Check that the date time display on the monitor TV is correctly displayed.

Page 25: Restart Recording

RESTART RECORDING Setting the Restart Recording On the SETUP screen set RESTART REC to ON. Press the DISPLAY button. The MENU screen appears on the monitor screen. TIME MODE DISPLAY – TRACKING SHIFT LOCATION SELECT Press the SHIFT button to blink SETUP and press the + or –...

Page 26: Timer Recording

TIMER RECORDING There are two kinds of timer recording. One is daily timer recording, and the other is weekly timer recording. Once the timer programs are set, the VCR can retain all programmed information in the event of a power failure (10 day maximum memory storage).

Page 27 Press the SHIFT button to blink end time. FR1 ON --:-- Set end time to 17:00 FR2 ON --:-- SA1 ON --:-- with the SET button and SA2 ON --:-- SHIFT button in SU1 ON --:-- SU2 ON --:-- the same manner as 6. DLY ON TIME MODE DISPLAY...

Page 28 Weekly Timer Recording To record every week for certain period on a certain day of the week, set the weekly timer recording. With the weekly timer recording, 2 programs are possible for each day of the week. In case of setting A18 from 8:00 to 19:00 on all weekdays, and A18 from 9:00 to 17:00 on Saturday and Sunday. Press the DISPLAY button.

Page 29: Overlapping Programs

Press the + SET button to set to A18. MO1 ON MO2 ON --:-- TU1 ON --:-- TU2 ON --:-- TIME MODE WE1 ON --:-- DISPLAY – WE2 ON --:-- TRACKING TH1 ON --:-- SHIFT TH2 ON --:-- LOCATION SELECT Press the SHIFT button twice to blink the...

Page 30: Alarm Recording

ALARM RECORDING If an alarm condition arises, the alarm function operates with an alarm input signal. Operation at Alarm Input When there is an alarm during recording, recording pause or stop modes, the VCR automatically goes into alarm recording mode. The VCR can be programmed to record in the following time modes during alarm recording: A2, A6, A12, A18, A24.

Page 31 Connecting the Alarm Terminals Connecting the ALARM IN/OUT terminals Warning • When the alarm switch is ON, alarm recording starts. It is possible to confirm the warning from outside by connecting the switching input of external interface devices such as alarm lamp or alarm buzzer to the alarm output. Please do not use the alarm output for power source to any of external devices.

Page 32 Setting the Alarm Recording Press the DISPLAY button. TIME MODE DISPLAY – TRACKING SHIFT LOCATION SELECT Press the SHIFT button to blink SETUP and press the + SET button. TIME MODE DISPLAY – TRACKING SHIFT LOCATION SELECT Press the + SET button to set the alarm recording time.

Page 33: One Shot Recording

ONE-SHOT RECORDING It is possible with this VCR to carry out one-shot recording to record only when there is a trigger input from outside or for use as a data file. If a trigger is input to the one-shot input on the back, there will be recording for the field numbers set at the time interval set.

Page 34 Press the SHIFT button to make INTERVAL blink. Press the + SET button to set the time interval be- tween the individual recording fields. TIME MODE DISPLAY – TRACKING SHIFT LOCATION SELECT Each time pressing the + SET button, the display changes as follows.

Page 35: Setting Of Operation After Tape End Detection

OPERATION AFTER TAPE END DETECTION The VCR can be programmed to respond differently when the tape reaches its end. The following describes how to set the different modes of operation. How to Set to Stop at End of Tape Press the DISPLAY button.

Page 36: Auto Rewind After Recording

The VCR can be programmed to automatically rewind the tape when the tape reaches its end. How to Set to Auto Rewind at End of Tape Press the DISPLAY button. TIME MODE DISPLAY – TRACKING SHIFT LOCATION SELECT Press the SHIFT button to blink SETUP and press the + SET button.

Page 37: Repeat Recording

The VCR can be programmed to automatically restart recording when the tape reaches its end. With this function, the VCR will automatically rewind the tape and begin recording. How to Set to Repeat Record at End of Tape Press the DISPLAY button.

Page 38: Recording With The Sequential Switcher

RECORDING WITH THE SEQUENTIAL SWITCHER This VCR can work with a sequential switcher connected for recording. Connection with the Sequential Switcher For detailed operations and connections of the switcher, consult the Instruction Manual of the sequential switcher. Timing for Camera Switching In case of using the sequential switcher for 4 channels (and recording for A18 hours);...

Page 39 REC Trigger Output Selection in the Alarm Recording REC Trigger output can be selected during the alarm recording. Press the DISPLAY button. TIME MODE DISPLAY – TRACKING SHIFT LOCATION SELECT Press the SHIFT button to blink SETUP. TIME MODE DISPLAY –...

Page 40: Playback Operation

LAYBACK OPERATION PLAYBACK Turn the power ON for the monitor TV. Insert a tape which has been recorded on. REC CHECK TIMER VIDEO MODE AUTO COLOR REMOTE OFF REMOTE OPTION POWER EJECT BUZZER TAPE REMAIN COUNTER MEMORY ALARM RESET Tracking Adjustment Use the TRACKING button to adjust when noise appears on the playback screen.

Page 41 Using the SHUTTLE Dial You can also activate the picture search and slow playback of various speed by turning the shuttle dial on the VCR. The playback speed changes by turning the dial as shown below: Turn dial to the Reverse direction 2nd STEP Return to 1st STEP...

Page 42: Playback In Various Mode

PLAYBACK IN VARIOUS MODES The following operations are possible during playback. Picture Search It is possible to carry out fast forward and rewind while viewing picture and thus quickly locate the section you wish to view (image played back at speed of 5 times faster than A2 mode).

Page 43: Time Date Search

TIME DATE SEARCH Searching a picture at a desired day and time is possible by specifying the day and hour on the MENU screen. The VCR automatically records the current date and time (day/hour/minute). Accordingly, make sure before recording that the date and time is exactly adjusted.

Page 44: Alarm Search

ALARM SEARCH With the alarm search function, it is possible to search for alarm that has been recorded on the tape. Search Operation Press the STOP button. Press the COUNTER MEMORY button twice to make “ALARM M” to light. Turn the SHUTTLE dial to set rewind or fast forward. ALARM Press the PLAY button.

Page 45: Notice

OTICE SIGNAL LEVELS OF INPUT/OUTPUT TERMINALS Input/Output Terminal ALARM IN ALARM RESET ALARM OUT REC TRIGG. OUT TAPE END OUT ONE SHOT IN DC5V IN10010K DC5V Signal level Additional remarks...

Page 46: Daily And Periodic Inspection

DAILY AND PERIODIC INSPECTION This VCR has been designed to stand the use over long periods. Nevertheless, we recommend you to carry out regular daily inspection to insure problem-free use. Note: It is particularly important to carry out daily checks when using the VCR for repeat recording. Order of Daily Checks Turn the power ON for this VCR and for the

connected devices in the surveillance system including the video...

Page 47 Steps to Take after Daily Checks If an abnormality is found, turn the power switch to OFF and remove the power plug from the household AC outlet. Then consult with your dealer. A Request for Periodic Checks This VCR includes a time gauge to display the total usage time.

Page 48: Cautions During Use

CAUTIONS DURING USE Dew Condensation This VCR includes a safety function to prevent operation when dew condensation occurs and thus protects against damage to tapes, the video heads and other parts. i i i i i What is condensation? If you pour cold beer in a glass, water droplets gather on the surface of the glass.

Page 49: Before Calling Service Personnel

BEFORE CALLING SERVICE PERSONNEL If you suspect a breakdown, check the following points before calling your serviceman for follow-up service. Installation Power does not go ON. There is no camera picture. The camera picture is indistinct. Function/Operation The VCR does not operate even when the control buttons are pressed.

Page 50 Playback There is excessive noise in the playback picture. The playback picture is not clear. The time-lapse mode playback picture or still playback shakes up and down. Two recorded sections appear in the playback picture when using several video cameras and changing cameras.

Page 51: Specifications

SPECIFICATIONS Power supply 120V AC, 60 Hz Power consumption External dimensions Weight 11 lbs (5.0 kg) Signal system Standard NTSC color television system Recording System Rotary 2-head azimuth Cassette VHS marked, 1/2 inch cassette tape Tape speed A2-hour mode: 33.35mm/s, A6-hour mode: 11.12mm/s Recording/playback time mode A2/A6/A12/A18/A24/24/48/72/120/168 hours (when T-120 is used) Fast forward/rewind time...

Page 52 TOSHIBA AMERICA C.P.INC. CCTV GROUP VIDEO COMMUNICATION & INFORMATION SYSTEM DIVISION 1010 Johnson Drive Buffalo Grove, Illinois 60089-6900 (708)541-9400 Printed in Japan 70971646...